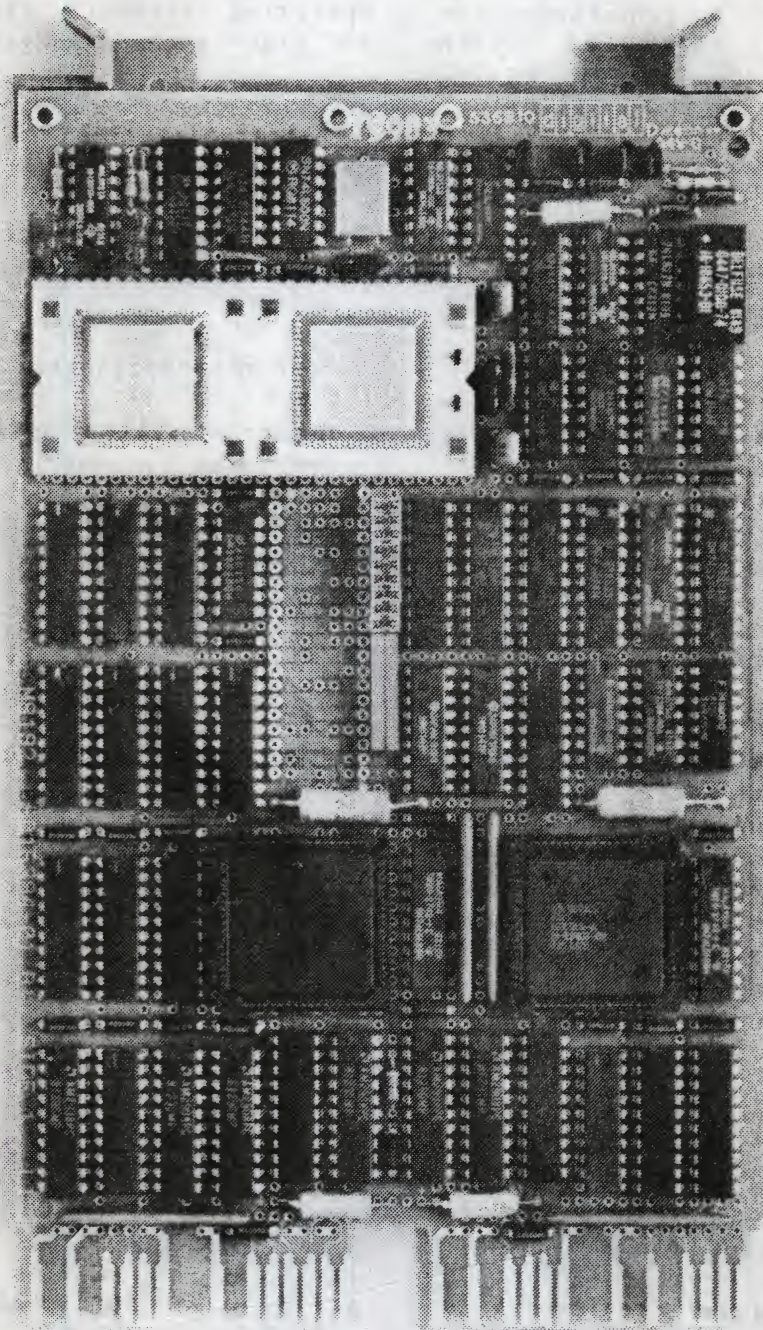


ANNOUNCING DIGITAL'S NEW QBUS PRODUCTS



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ANNOUNCING DIGITAL'S NEW QBUS PRODUCTS

LSI-11/73 (KD11-AA) HIGH PERFORMANCE MICROCOMPUTER

LSI-11/73 (KD11-AA) is a 16-bit, high-performance microcomputer contained on one dual-height multilayer module. Utilizing the latest CMOS/VLSI technology, the LSI-11/73 brings PDP-11/70 functionality to a microcomputer on the Q-Bus. The LSI-11/73, which utilizes the J11 (DCJ11) CMOS micro-

processor chip offers PDP-11/70 memory management capability, an 8k byte cache and FP11 floating point operations. It also supports a choice of sophisticated, field-proven PDP-11 operating systems, layered products and high-level languages.

FEATURES INCLUDE:

- . J11 CMOS microprocessor with:
 - 32-bit internal data path
 - Pipe-lined architecture
 - Four to five times LSI-11/23 KEF11 performance
 - On-ship full PDP-11 memory management
 - 4 MB addressing
 - Four levels of hardware interrupt
- . PDP-11/70, PDP-11/44 compatible memory management with:
 - 22-bit physical address generation
 - Instruction and data (I/D) address space
 - Kernel, supervisor, and user (K/S/U) processor modes
 - Four status registers
- . FP11 floating point instruction set (46 instructions)
- . PDP-11/70 system registers
 - Cache control register
 - Hit/Miss register
 - Program interrupt request register (PIRQ)
 - CPU error register
 - Memory system error register
 - Line time clock register
 - Maintenance register
- . An 8 KB cache
- . Q-BUS compatible (16, 18 or 22 bits)
- . Multi-level interrupt support
- . Optional wake-up circuit
- . Four jumper selectable power-up options
- . Four microdiagnostic LEDs
- . Supports all standard PDP-11 operating systems including
 - MicroPower/Pascal, RT-11, RSX-11M,S, RSX-11M PLUS, RSTS/E,
 - V7M-11 (UNIX *).

Specifications

Physical characteristics

Height	13.2 cm (5.2 in)
Width	22.7 cm (8.9 in)
Size	Dual-height

Power requirements/operation

Operational power +5v	4.0A max
Bus loads	AC 2 unit loads DC 1 unit load

Operating environment

Temperature	5 to 60 deg. C.
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*) UNIX is a trademark of Bell Labs.

MULTIPLEXOR DISTRIBUTION PANELS

MDB-H317-AC-X



EIA/20 ma current loop 8 channel distribution panel. RETMA rack mountable. Used with MLSI-DZ11-B multiplexor boards to allow user choice of 8 channels of EIA-RS-232-C or 20 ma current loop circuitry on a per line basis. Strappable for either active or passive current loop mode on a per line basis. Distribution panel has self contained power supply on rear with 6 foot AC cord. Does not require any power from CPU chassis.

MDB-H317-A/422-X



RS-232-C/RS-422 8 channel distribution panel. RETMA rack mountable. Used with MLSI-DZ11-B multiplexor boards to allow user choice of 8 channels of EIA-RS-232-C or RS-422 circuitry on a per line basis. When used with DZ11-B, provides the capability to transmit and receive data via RS-422 circuitry, thereby allowing placement of terminals with corresponding circuitry up to 3000 feet (914m) from the computer. Distribution panel has self contained power supply with 6 foot AC cord. Does not require any power from CPU chassis. Access to RS-422 circuitry is by use of eight 37 pin male connectors with pin numbers as described in EIA-RS-449 for Transmit, Receive, Carrier Detect, Ring, and Data Terminal Ready circuits.

Procedure is to indicate either X = 0 for 110 VAC, 60Hz operation or X = 2 for 220 VAC, 50Hz operation.

MDB-H317-E



EIA-RS-232 16 channel distribution panel. RETMA rack mountable. Used with one or two MLSI-DZ11-B multiplexor boards to provide DZ11-A or DZ11-E capabilities.

Base dimensions of all distribution panels are shown below.

Height	Width	Depth*	Weight
5.25" (13.34cm)	19.00" (48.26cm)	4.50" (13.76cm)	11 lbs. (5.0kg)

*Built in power supply adds 2" depth to panel.

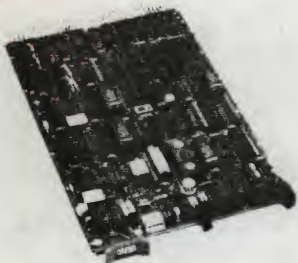
NOTE: The above Distribution Panels can be used with **DLV11-J** modules when connected by a unique Multiport Cable described below. This allows easier and neater connection of cables to terminals.

MLSI-BC11-8-10

Multiport Cable which connects MDB manufactured H-317 type distribution panels to one or two **DLV11-Js**. Cable is 10 feet (3.05m) long, one end of which has a Berg type 50-pin connector. The other end of cable has 8 connectors which plug into the I/O connectors of DLV11-J type modules.

SYSTEMS MODULES

MLSI-SCM11



Systems Communication Module that contains one asynchronous **RS-232/20 ma current loop interface**, **bootstrap accommodations**, and **programmable Line Time Clock**, which provides Unibus **KW11-L compatibility** with **four level interrupt capability**. Switch selectable **data rates** from **110 to 38.4K baud** are changeable from front edge of module without powering system down and removing board. Limited modem control. All UART parameters (word length, parity odd-even-none, and Stop Bits 1, 1.5 or 2) are wirewrap jumper selectable. Configured when shipped to transmit/receive 1 start bit, 7 data bits, odd parity, 1 stop bit. Active or passive receiver and/or transmitter current loop capability. **Bootstrap sockets accommodate optional MXV11-AC chip sets as well as 2732/2716 PROMs** which can be used for customer generated boot or ROM. ROM can be selected in address ranges up to 22-bit addressing; maximum ROM capacity is 8KB. **Two front mounted LEDs indicate** whether the module is **transmitting or receiving data**. The programmable Line Time Clock offers the ability to enable/disable interrupts under program control. Serial line address and vector address are wirewrap jumper changeable; configured at factory to device address 777560₈, vector address 060₈ which is DEC recommended address of console device. Utilizes optional BC05M-2C (Current Loop), BC05C-25, or MDB BC0TC Direct Connect (RS-232-C) cables.

Mounting Code

Dual Slot

Power Drawn

1.5a @ +5V
.1a @ +12V

Bus Loads Drawn

1 max

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